

AMENDMENTS TO THE CLAIMS

Claims 1-42 were pending at the time of the Office Action.

Claims 1, 4, 5, 13, 15, 18, 23-26, 30, 33 and 36 are hereby amended. Claim 14 has been cancelled.

Claims 1-13 and 15-42 remain pending.

1. (Currently Amended) A method comprising:

transmitting with a ~~second~~first mote at least a part of an aggregate of one or more mote-addressed content indexes of a first set of motes administered by a first network administrator owned or controlled by a first business entity to an aggregator of (i) a first-set content index from the first set of motes administered by the first network administrator owned or controlled by the first business entity and (ii) a second-set content index from a second set of motes administered by a second network administrator owned or controlled by a second business entity.

2. (Original) The method of claim 1, wherein said transmitting at least a part of an aggregate of one or more mote-addressed content indexes of a first set of motes further comprises:

transmitting at least a part of at least one of a mote-addressed sensing index or a mote-addressed control index.

3. (Original) The method of claim 1, wherein said transmitting at least a part of an aggregate of one or more mote-addressed content indexes of a first set of motes further comprises:

transmitting at least a part of a mote-addressed routing/spatial index.

4. (Currently Amended) The method of claim 1, wherein said transmitting at least a part of an aggregate of one or more mote-addressed content indexes of a first set of motes further comprises:

transmitting part of the aggregate of one or more mote-addressed content indexes of the first set of motes to ~~reporting entity~~the aggregator.

5. (Currently Amended) The method of claim 1, wherein said transmitting at least a part of an aggregate of one or more mote-addressed content indexes of a first set of motes further comprises:

obtaining access to the one or more mote-addressed content indexes of the first set of motes, wherein the mote-addressed content indexes of the first set of motes comprises addresses of ~~content~~a plurality of motes stored in a memory in the first set of motes.

6. (Previously Presented) The method of claim 1, wherein said transmitting at least a part of an aggregate of one or more mote-addressed content indexes of a first set of motes further comprises:

transmitting part of the aggregate of one or more mote-addressed content indexes of the first set of motes in response to a schedule.

7. (Previously Presented) The method of claim 6, wherein the transmitting in response to a schedule further comprises:

receiving the schedule.

8. (Previously Presented) The method of claim 6, wherein the transmitting in response to a schedule further comprises:

deriving the schedule.

9. (Previously Presented) The method of claim 6, wherein the transmitting in response to a schedule further comprises:

deriving the schedule at least in part from at least one of multiple optimized queries or multiple stored queries.

10. (Previously Presented) The method of claim 1, wherein said transmitting at least a part of an aggregate of one or more mote-addressed content indexes of a first set of motes further comprises:

transmitting part of the aggregate of one or more mote-addressed content indexes of the first set of motes in response to multiple queries.

11. (Previously Presented) The method of claim 1, further comprising:

encrypting part of the aggregate of one or more mote-addressed content indexes of the first set of motes utilizing at least one of a private or a public key.

12. (Original) The method of claim 1, wherein said transmitting at least a part of an aggregate of one or more mote-addressed content indexes of a first set of motes further comprises:

decoding at least a part of one or more mote-addressed content indexes utilizing at least one of a public key or a private key.

13. (Currently Amended) A system comprising:

a device ~~controlled by~~ coupled with a second-first mote to transmit at least a part of an aggregate of one or more mote-addressed content indexes of a first set of motes administered by a first network administrator owned or controlled by a first business entity to an aggregator of (i) a first-set content index from the first set of motes administered by the first network administrator owned or controlled by the first business entity and (ii) a second-set content index from a second set of motes administered by a second network administrator owned or controlled by a second business entity.

14. (Cancelled)

15. (Currently Amended) The system of claim 13 wherein the device coupled with the first mote to transmit at least a part of an aggregate of one or more mote-addressed content indexes of a first set of motes further comprising ~~comprises~~:

means for transmitting at least a part of a mote-addressed routing/spatial index.

16. (Previously Presented) The system of claim 13, further comprising:
a reporting entity effecting the transmitting.

17. (Previously Presented) The system of claim 13, further comprising:
a reporting entity obtaining access to the one or more mote-addressed content indexes of the first set of motes.

18. (Currently Amended) The system of claim 13, wherein the device coupled with the first mote to transmit at least a part of an aggregate of one or more mote-addressed content indexes of a first set of motes further comprising~~comprises~~:
~~means for effecting the transmitting~~ to transmit at least a part of an aggregate of one or more mote-addressed content indexes of a first set of motes in response to a schedule.

19. (Original) The system of claim 18, wherein said means for effecting the transmitting in response to a schedule further comprises:
means for receiving the schedule.

20. (Original) The system of claim 18, wherein said means for effecting the transmitting in response to a schedule further comprises:
means for deriving the schedule.

21. (Previously Presented) The system of claim 18, wherein said means for effecting the transmitting in response to a schedule further comprises:
means for deriving the schedule at least in part from at least one of multiple optimized queries or multiple stored queries.

22. (Previously Presented) The system of claim 13, further comprising:
a reporting entity effecting the transmitting in response to multiple queries.

23. (Currently Amended) The system of claim 13, wherein the device coupled with the first mote to transmit at least a part of an aggregate of one or more mote-addressed content indexes of a first set of motes further comprising~~comprises~~:

means for encrypting utilizing at least one of a private or a public key.

24. (Currently Amended) The system of claim 13, wherein the device coupled with the first mote to transmit at least a part of an aggregate of one or more mote-addressed content indexes of a first set of motes further comprising~~comprises~~:

means for decoding at least a part of one or more mote-addressed content indexes utilizing at least one of a public key or a private key.

25. (Previously Presented) A system comprising:

a ~~second-first~~ first mote; and

means for transmitting at least a part of an aggregate of one or more mote-addressed content indexes of a first set of motes administered by a first network administrator owned or controlled by a first business entity to an aggregator of (i) a first-set content index from the first set of motes administered by the first network administrator owned or controlled by the first business entity and (ii) a second-set content index from a second set of motes administered by a second network administrator owned or controlled by a second business entity, the transmitted aggregate of one or more mote-addressed content indexes of the first set of motes excluding mote-addressed content ~~indexes of the second-first set of~~ motes, and said means for transmitting being disposed proximate to said ~~second-first~~ first mote.

26. (Currently Amended) A system comprising:

at least one mote; and

at least one multi-mote reporting entity resident in said at least one mote, said at least one multi-mote reporting entity configured to report at least a part of a multi-mote content index stored in a ~~first set of motes of a first set of motes~~ first set of motes administered by a first network administrator owned or controlled by a first business entity to an aggregator of (i) a first-set content index from the first set of motes administered by the first network administrator owned or controlled by the

first business entity and (ii) a second-set content index from a second set of motes administered by a second network administrator owned or controlled by a second business entity.

27. (Original) The system of claim 26, wherein said multi-mote content index further comprises:

at least one of a sensing function, a control function, or routing/spatial information of a mote-appropriate device.

28. (Previously Presented) The system of claim 26, wherein said at least one multi-mote reporting entity is configured to transmit at least one of a sensing function, a control function, or routing/spatial information.

29. (Original) The system of claim 26, wherein said at least one mote comprises:

at least one of a processor, a memory, or a communications device formed from a substrate.

30. (Original) The method of claim 1, wherein the transmitted aggregate of one or more mote-addressed content indexes of the first set of motes excludes mote-addressed content ~~indexes of the second-first set of motes.~~

31. (Previously Presented)The method of claim 2, wherein the mote-addressed sensing index or the mote-addressed control index indicates the availability of information at a sensing device, a format of information obtained from the sensing device, or a format of commands to query the sensing device.

32. (Previously Presented)The method of claim 1, wherein the mote-addressed content index of the first set of motes includes data that indicates the availability of a light device entity, an electrical device entity, a pressure device entity, a temperature device entity, a volume device entity, an inertial device entity, or an antenna entity.

33. (Currently Amended) The system of claim 13, wherein the transmitted aggregate of one or more mote-addressed content indexes of the first set of motes excludes mote-addressed content indexes of the ~~second~~first set of motes.

34. (Previously Presented) The system of claim 13, wherein the mote-addressed content index of the first set of motes indicates the availability of information a sensing device, a format of information obtained from the device, or a format of commands to query the sensing device.

35. (Original) The system of claim 13, wherein the mote-addressed content index of the first set of motes indicates the availability of a light device entity, an electrical device entity, a pressure device entity, a temperature device entity, a volume device entity, an inertial device entity, or an antenna entity.

36. (Currently Amended) The system of claim 26, wherein the at least one multi-mote reporting entity configured to report at least a part of a multi-mote content index stored in motes without reporting any content index stored in the first ~~at least one~~ mote.

37. (Currently Amended) The system of claim 26, wherein the mote-addressed content index of the first set of motes indicates the availability of information at a sensing device, a format of information obtained from the device, or a format of commands to query the device.

38. (Currently Amended) The system of claim 26, wherein the mote-addressed content index of the first set of motes includes data that indicates the availability of a light device entity, an electrical device entity, a pressure device entity, a temperature device entity, a volume device entity, an inertial device entity, or an antenna entity.

39. (Previously Presented) The method of Claim 2, wherein transmitting at least a part of at least one of a mote-addressed sensing index or a mote-addressed control index further comprises:

transmitting query data indicating a query command format of a sensing device and transmitting output format data indicating an output format of information of the sensing device.

40. (Previously Presented) The method of Claim 2, wherein transmitting at least a part of at least one of a mote-addressed sensing index or a mote-addressed control index further comprises:

transmitting data indicating a query command format of a sensing device coupled with at least one of the first set of motes or transmitting data indicating an output format of information of the sensing device.

41. (Previously Presented) The method of Claim 2, wherein transmitting at least a part of at least one of a mote-addressed sensing index or a mote-addressed control index further comprises:

transmitting control command format data indicating a control command format of a sensing device and transmitting feedback format data indicating a feedback format of information of the sensing device.

42. (Previously Presented) The method of Claim 2, wherein transmitting at least a part of at least one of a mote-addressed sensing index or a mote-addressed control index further comprises:

transmitting control command format data indicating a control command format of a sensing device coupled with at least one of the first set of motes or transmitting a feedback format data indicating feedback format of information of the sensing device.